

Recombinant Human 3'-Phosphoadenosine 5'-Phosphosulfate Synthase 1, His-tagged

Cat. No. PAPSS1-1390H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PAPSS1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
Description	PAPSS1, also known as bifunctional 3"-phosphoadenosine 5"-phosphosulfate synthase 1, is a bifunctional enzyme with both ATP sulfurylase and APS kinase activity, which mediates two steps in the sulfate activation pathway, yielding 3"-phosphoadenylylsulfate (PAPS).
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl.
Molecular Weight	70.9 kDa(626aa)
Purity	> 85% by SDS - PAGE
Concentration	0.5mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHSSGLVPRGSH MGSHMRATNV TYQAHHVS RN KRGQVVGTRG GFRGCTVWLTGLSGAGKTTV SMALEEYLVC HGIPCYTLDG DNIRQGLNKN LGFSPEDREE NVRRIAEVAK LFADAGLVCITSFISPYTQD RNNARQIHEG ASLPFFFEV FV DAPLHVCEQR DVKGLYKKAR AGEIKGFTGI

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DSEYEKPEAPELVKTDSCD VNDCVQQVVE LLQERDIVPV DASYEVKELY
 VPENKLHLAK TDAETLPALK INKVDMQWVQVLAEGWATPL NGFMREREYL
 QCLHFDCLLD GGVINLSVPI VLTATHEDKE RLDGCTAFAL
 MYEGRRVAILRNPEFFEHK EERCARQWGT TCKNHPYIKM VMEQGDWLIG
 GDLQVLDRVY WNDGLDQYRLTPTELKQKFKDMNADAVFAF QLRNPVHNGH
 ALLMQDTHKQ LLERGYRRPV LLLHPLGGWT KDDDVPLMWR
 MKQHAAVLEEGVLNPETTVV AIFPSPMMYA GPTEVQWHCR ARMVAGANFY
 IVGRDPAGMP HPETGKDLYE PSHGAKVLTMAPGLITLEIV PFRVAAYNKK
 KKRMDDYYDSE HHEDFEFISG TRMRKLAREG QKPPEGFMAP
 KAWTVLTEYYKSLEKA

Storage

Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name [PAPSS1 3"-phosphoadenosine5"-phosphosulfate synthase 1 \[Homo sapiens \]](#)

Official Symbol [PAPSS1](#)

Synonyms

PAPSS1; 3"-phosphoadenosine5"-phosphosulfate synthase 1; asSK1; PAPSS;
 ATPSK1; bifunctional3"-phosphoadenosine 5"-phosphosulfate synthase 1; SK 1;
 PAPSS 1; PAPS synthase1; OTTHUMP00000161864; sulfurylase kinase 1; 3-prime-
 phosphoadenosine5-prime-phosphosulfate synthase 1; EC 2.7.1.25; EC 2.7.7.4

Gene ID [9061](#)

mRNA Refseq [NM_005443](#)

Protein Refseq [NP_005434](#)

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MIM	603262
UniProt ID	O43252
Chromosome Location	4q24
Pathway	Biological oxidations; Cytosolic sulfonation of small molecules; Formation of PAPS; Metabolic pathways; Phase II conjugation; Purine metabolism; Selenocompound metabolism; Sulfur metabolism
Function	ATP binding; adenylsulfate kinase activity; nucleotide binding; nucleotidyltransferase activity; sulfate adenyltransferase (ATP) activity
PDB rendering based on 1x6v.	